TVA Projects

(Insert Contractor's Company Name)

Safety & Health Plan

(Insert TVA Project Name and Number)

Approved By:	Approved By:			
Project/Site Manager	 Constructor Site Manager			
Date:	Date:			
Reviewed By:				
TVA Safety Professional				
Date:				

Safety & Health Plan (Insert Company Name) (Insert TVA Location and Project Name)

Purpose

The purpose of this document is to provide guidance on the process for identifying Safety and Health hazards that could affect workers, procedures to prevent accidents, and steps to be taken when events occur on this project.

Scope

This plan will cover specific project workplace activities when contractors have direct TVA plant interface. It will cover how specific TVA Safety standards and OSHA requirements are to be applied during the project. It is understood that TVA Safety and Health procedures must be met at all times. You are responsible for subcontractors that you bring on site. (Exclusion - TVA's Partner GUBMK will follow their current Safety and Health Plan format. Green field and Brown field sites will follow a different format as specified in TVA-TSP 18.004.)

1) Project Work Scope

a) (Insert - brief description of work to be performed. Include how many workers, outage duration in days and what shift rotation schedule is to be followed. Ex. 6 days x 10hrs or 5 days x 8hrs.)

2) Policy Statement

a) (Insert - your company's Safety policy statement and include your company's safety goals on this project.)

3) Responsibility & Emergency Notification

- a) (Insert -list of responsible personnel and contact numbers who will be onsite. Include names for the following job classifications: project manager, construction manager, superintendent, foreman, safety lead or manager, nurse or person who will provide basic first aid or first responders and person who will provide training.)
- b) (Insert -list of OSHA Competent personnel for this project. (i.e., personal fall arrest system, scaffold inspection, rigging, trenching/excavation, inspection of equipment, respiratory protection, cranes/derricks, concrete forms and shoring, demolition, lead and asbestos abatement. At least one competent person must be on site at all times when work is being performed.)
- c) (Insert describe how your management team and first-line supervisors will incorporate safety observations in the field. Also include how you will enforce compliance with all TVA and your company safety rules,)

4) Safety Orientation

- a) The TVA Contractor Safety Orientation material will be reviewed with all contractors before beginning work. (TVA to provide material and orientation if necessary.)
- b) (Insert -List any additional topics to be covered in the safety orientation your company will provide.)

5) Safety Training

a) (Insert - list of OSHA required training that your company provides to your employees.)

6) Work Plans

- a) (Insert description of how tool box safety talks, daily safety messages, and weekly safety meetings will be performed on this project.)
- b) (Insert- description on what work package and format will be used.)
- c) (Insert how your company will plan to use Job Safety Analysis's [JSA's] on this project.)
- d) (Insert describe how pre-job briefs will be conducted and include copy of format. Describe how the Two-Minute Rule card will be used.)
- e) (Insert-description of how equipment removal and installation will be performed safely. Include safe start-up steps, if applicable.)
- f) (Insert-description of controlling environmental hazards such as asbestos, lead paint, PCB's waste oil or other hazardous materials. Describe where and how Safety Data Sheets will be maintained during this project.)
- g) (Insert-description of safe handling and movement of material. Include established material laydown areas and location of tool crib. Identify crew lunch areas, restroom facilities, established smoking areas, gate access and parking for this project.)
- h) (Insert-description of mobile equipment including type and size of units to be used. Also, include pedestrian control, operator visibility and spotter precautions.)
- i) (Insert-description of rigging plans and approval process for rigging.)
- j) (Insert-description of tool drop prevention plan. How employees will be protected when working below other workers.)
- k) (No firearms, drugs or alcohol are allowed on TVA property. This includes parking lots. Also, seat belts are required in moving vehicle and mobile equipment. Please insert how your company will communicate to your employees and monitor compliance.)

7) Event Reporting and Investigations

- a) All employees and subcontractors will be required to immediately report all injuries, no matter how small they appear, and near misses immediately to their supervisor. The supervisor of the employee will then immediately notify the TVA Project/Construction manager.
- b) A written preliminary report must be developed and approved by the TVA project manager(s) within the injured employee's work shift if possible, but no later than 8 hours after the event.)

- c) The contractor will conduct a full investigation and provide a written final report to TVA outlining the description, apparent cause, and control measures to prevent a future event within 48 hours. The contractor will review the investigation report with their employees and incorporate key learnings into future pre-job brief for all employees.
- d) (Insert names and position of onsite personnel responsible for reporting events to TVA and issuing reports.)

8) Fire Prevention

- a) (Insert-describe when bonding and grounding will be used to prevent unexpected electrical discharge of equipment or when handling solvents, flammables or combustibles.)
- b) (Insert-describe how sparks will be controlled when grinding and welding. You must use the TVA Hot Work Permit.)
- c) (Insert-describe method for properly labelling containers of flammables and combustibles.)
- d) (Insert-location of designated smoking areas for project.)

9) Fitness For Duty

Managed task contractors shall provide their employees a fitness-for-duty examination to determine the workers' ability to perform the task for which they are hired. Job offers should be made conditional upon successful completion of the medical exam. Medical exams to determine a workers' ability to perform tasks associated with the work shall be applied uniformly to all entering employees in the same job category. This medical information shall be kept confidential.

a) (Insert - how your company will implement requirements for drug testing; random, for cause and post incident testing. Also, state how you will qualify worker's ability to perform the task for which they are hired.

10) High Hazard Work

a) TVA requires documentation and communication to TVA management 24 hours before work begins on the attached 5 key topics titled High Hazard Work. (confined space, high hazard lifts, fall protection, arc flash/energized components, and fire protection. See attachments, when to report on these work activities.)

11) Housekeeping

 a) (What steps will your company follow to keep work areas orderly and housekeeping adequate to prevent slips, trips and falls?)

12) Human Performance Tools

a) TVA has 5 fundamental Human Performance (HU) Tools for contractors. They are; Pre-Job Brief, Two-Minute Rule, Stop When Unsure, Procedure Use/Adherence and Self Check. Your company is expected to incorporate these tools into your project work. You will receive training on these five HU tools.

13) Industrial Hygiene Sampling

a) (Insert - description of when and what samples will be collected to monitor employee's potential exposures.

Ex. Welding/cutting/grinding on lead base paint, welding on stainlesssSteel for Hexavalent Chromium, etc..)

14) Inspections

- a) (Insert describe how often your management team, including first-line supervision, will conduct site safety inspections and safety observations on their employees.
- b) (Insert describe frequency of equipment such as rigging, fall protection, hand tools/extension cords, mobile equipment etc.)

15) Medical Facility

Managed task contractors must designate an occupational medical provider with the authority and ability to oversee injury assessment, care, and case management. This person and/or facility shall have authority to act on behalf of the contractor as the contractors' Medical Director for all occupational medical care for contractor and subcontractor project employees. Case management shall include oversight and evaluation of initial care and therapy, development of return to work restrictions, and follow-up evaluations to ensure active case management. This person and/or facility shall be integrated into the contractors' project-specific occupational surveillance, health, and safety program.

 a) (Insert name, phone number and location of the nearest occupational health clinic. Include name of your worker's compensation carrier.

16) Recordkeeping

a) (Insert - description on how you will record near misses, first aids and recordable injuries. TVA expects a weekly event summary report on injuries to the Project/Construction manager. See the attached Excel spread sheet to be completed and submitted by COB Sunday of each week to the TVA Project/Construction Manager and email to TVA Safety at TVA MTHSAFETY HRS@tva.gov . Weeks will run from Monday to Sunday.)

17) Workplace Permits

a) (Insert - list of all critical permits to be used on project. i.e., hot work, confined space, scaffolding, rigging cards, trenching, clearance, etc.)

18) Zero Tolerance Policy

 a) (Insert - describe your companies "zero tolerance" policy and your plan to handle corrective action on potential safety violations.)

19) Competent and Qualified Person's

- a) (Insert the names of the Competent person's i.e. scaffold inspection, trenching,)
- (Insert the names of the Qualified person's i.e. fall protection, advanced riggers, confined Space supervisor, ATM testing, CPR, First Aid, etc.)

TVA High Hazard Work - *Confined Space Entry* TSP-801

Plant:	Unit:	Date:
Work Order:		
Work Scope: (In	nclude Name of Confined Space)	
	-	cident Prevention Checklist
Voc/No	Is this confined space listed on the p	slent site confined space Entries
165/100	is this confined space listed on the p	maint site commed space log:
Yes/No	Has appropriate training been compl (Entry Supervisor, Atmospheric Eva	eted by all employees on their role in the confined space entry? aluator, Entrant/Attendant)
Yes/No	Have the appropriate Clearances bee	n put in place to successfully isolate the space?
Yes/No	Have you verified that no "unplanned	d" chemicals or gases will be introduced into the space?
Yes/No	Has the TVA Hazard Evaluation Rep	port been completed by Entry Supervisor?
Yes/No	•	Atmospheric Evaluator using a calibrated air monitor to determine re should be safe without relying on ventilation.)
Yes/No	Has the Entry Supervisor discussed he created by all the scheduled work tas	nazards with the space or hazards with the work in the space
Yes/No	Are the proper documents posted at	the entrance of the confined space?
Yes/No	Has a rescue plan been developed an	d entry and non-entry rescue been reviewed?
Yes/No	Has a documented Pre-Job Brief bee	n conducted with an approved JSA?
Yes/No	Has this form been submitted to the	TVA Outage/Operations Team 24 hours prior to work starting?
Company/Super	visor's Name	
Management Of	ficial In Charge	

TVA High Hazard Work - *Crane Lifts* TSP-802

Management Official In Charge

Plant:	Unit:	Date:	
Work Order: _			
Work Scope:			
	0	Incident Prevention Checklist All High Hazard Lifts	
Yes/No	Has a designated Crane Coordinate	or been selected for this lift?	
Yes/No	Has the selected Crane Coordinator	r completed all required training for this designation?	
Yes/No	Crane operator, rigger, and signal p	erson all have completed appropriate training?	
Yes/No	Have the crane coordinator, crane of	operator, rigger, and signal person reviewed the lift plan?	
Yes/No	Is the High Hazard Lift plan docun	nented on TVA form 17671?	
Yes/No	Have items such as: load, stresses, s	support structures, lift, and swing paths been evaluated?	
Yes/No	Has the load drop zone been clearly unauthorized personnel?	y identified and properly barricaded to prevent pinch points	s and
Yes/No	Has the rigging been inspected and	color coded?	
Yes/No	Will hand signals will be used to co	mmunicate with the crane operator?	
Yes/No	If using electronic communication operations begin?	of crane signals, electronic communication has been tested	before
Yes/No	Has this form been submitted to th	e TVA Outage/Operations Team 24 hours prior to work st	tarting
Company/Supe	rvisor's Name		

TVA High Hazard Work - Fall Protection TSP-305

Plant:	Unit:	Date:
Work Order: _		
Work Scope:		
such as suspen	volving temporary grating removal,	cident Prevention Checklist floor and wall openings. Report jobs requiring fall protection systems, leading edge work, and/or fall protection safety safety lanyards.
Yes/No_	Has proper access to the work area	been provided? (ladders, scaffold platforms, stairwells, etc)
Yes/No	Has a JSA and a documented pre-jol	b been completed with employees involved in the task?
Yes/No	Have all employees that will be work required training on Fall Protection	king at unprotected heights of 4 feet or greater completed OSHA Systems?
Yes/No	Has selection of proper fall protection (harness and lanyard/retractable, life	on system been completed for the appropriate fall distance? Teline, rope grabs, etc)
Yes/No	If applicable, has an anchorage point	t capable of supporting 5000 pounds per employee been selected?
Yes/No	If applicable, has a suitable connection trolley, nylon fall protection anchor	ng device to the anchorage point been selected? (beam clamp, strap, bite back lanyard, etc.)
Yes/No	Have all parts of the fall protection properly color coded?	system been inspected for wear, damage, and deterioration - and
Yes/No	Has a rescue plan been developed to	rescue a worker should they fall?
Yes/No	Has this form been submitted to the	e TVA Outage/Operations Team 24 hours prior to work starting?
Company/Super	rvisor's Name	
Management Of	fficial In Charge	

TVA High Hazard Work - *Arc Flash & Energized Components* TSP-1021, 1022

Plant:	Unit:	Date:
Work Order:		
Work Scope: _		
(Report arc flas		ponents Incident Prevention Checklist 2 and grounding evolutions of 480 V & greater.)
Yes/No	Have all employees performing any completed required Arc Flash Haza	work on/with 480 V through 500 kV electrical power circuits and training?
Yes/No	Has a JSA been developed and used	l for work on 480 V - 500 kV electrical power circuits?
Yes/No	Has a documented pre-job brief bed	en conducted with all responsible parties of electrical equipment?
Yes/No	Is equipment being worked on adec signs, calorie ratings, etc)	quately labeled in regards to arc flash information? (i.e. warning
Yes/No	Has proper Arc Flash PPE been sel electrical power circuits?	ected to be worn when working on/with 480 V through 500kV
Yes/No	Has Arc Flash PPE been inspected	for defects or damage?
Yes/No	Has the proper Arc Flash Boundar	y been set up according to know arc flash potential?
Yes/No	Have Live Dead Live checks been p AC and DC voltage may need to b	performed per TVA-TSP-1021 or Appendix G of TVA-TSP-1022? e verified.
Yes/No	Has it been determined that the wor	rk on electrical circuits and equipment can be done in a safe manne l person?
Yes/No	Have minimum approach distances communicated?	to exposed energized conductors/parts been established and
Yes/No	If necessary, have detailed temporar manager? (480v and up)	ry grounding plans been developed and approved by the applicable
Yes/No	Are CPR trained personnel readily a	vailable?
Yes/No	Has this form been submitted to the	e TVA Outage/Operations Team 24 hours prior to work starting?
Company/Super	visor's Name	
Management Of	ficial In Charge	

TVA High Hazard Work - *Fire/Explosion/Burn Hazards* TSP-816, 906

Plant:	Unit:	Date:	
Work Order:			
Work Scope: _			
	ection systems being removed from scluding trailer replacement, work inv	Incident Prevention Checklist service, generator purging process, hydrogen system rolving ash with significant burn hazards, and fire hazards	urds
Yes/No	Have the appropriate governing pro	cedures been reviewed with the group conducting the worl	ς?
Yes/No	Has a Job Safety Analysis been devel	oped and approved?	
Yes/No	Has a documented pre-job briefing b	peen conducted with those parties involved in the task?	
Yes/No	Are adequate secondary measures of	fire suppression/support available and staged?	
Yes/No	Are areas barricaded appropriately to	protect employees?	
Yes/No	Is the adequate monitoring equipme Temperature monitors, etc)	nt onsite, inspected, and available for use? (i.e. Hydrogen, C	Oxygen
Yes/No	Is the necessary PPE available and a shields, gloves, etc)	adequate for the hazards involved with the task? (hot suits,	face
Yes/No	If the atmosphere is flammable/expl (radios, phones, lighting, etc)	osive, is electrical equipment used in the area intrinsically s	afe?
Yes/No_		for 30 minutes after work scope completed. (In areas with g coal handling, the fire watch shall be maintained for not lot work operations.)	ess
Yes/No	_ Has this form been submitted to the '	TVA Outage/Operations Team 24 hours prior to work star	rting?
Company/Superv			

Contracto	r Name:			_						
	Work Site									
	Current WK	From:	To:			YTD	From:	To:		
	R	ecordable	First Aids	Near Misses			Recordables	First Aids	Near Misses	
	Hours Worl	ked								
Number	Class	DOI	Time	JOB	Location	Type Injury	POB	IN	EE	Comment
(Ex.) 1	R	1/2/15	13:30	Pipefitter	U1 Pulverizer	Laceration	Rt Hand	Wrench slipped, hand struck metal pipe.	Struck against	
	consecutively									
Event Classific	stions = LWD/Lo	st Work Days,	R/Recordable,	FA/First Aid, NM/N	lear Miss					
DOI = Date of Ir	jury									
Time = Military										
	pation = Trade o									
	tion at work site									
Type Injury = La POB= Part of Bo	ceration, fractu	re, strain, spr	ain, bruise etc.							
		dii		na comba Eu 1969						
			_	on verbs. Ex. Liftir	_					
Event Exposure	overexertion,		ntact by, conta	ct with, caught in	, caught on, cau	gnt between, foo	t level fall, fall to b	elow,		